

Kayser's "Physics of the Ocean", by
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GERMAN, bk, Physik des Meeres, 1911,
pp 201-233.
#Dept of Navy N00 Contract Trans 33

Sci-Mar Sci
Nov 69

63-18567

Smekal, Adolf.
ELECTROPHYSICS OF SOLID SUBSTANCES, I. (1963)
38p (fig omitted) 177refs
Order from SLA \$3.60

63-18567

Trans. of [Physik in Regelmässigen Berichten]
(Germany) 1936, v. 4, no. 1, p. 17-33.

DESCRIPTORS: *Solids, *Irons, *Conductors, Crystal
structure, Crystal lattices, Surfaces, Crystal lattice
defects, Glass, Temperature, Transport properties,
Thermal conductivity, Chemical bonds.

(Physics--Solid State, TT, v. 10, no. 10)

1. Title: Electrophysics
1. Smekal, A.

Office of Technical Services

63-20150

Smekal, Adolf.
ELECTROPHYSICS OF SOLID SUBSTANCES, II. [1963]
48p (formulae omitted) 384refs
Order from SLA \$4.60

63-20150

1. Title: Electrophysics
1. Smekal, A.

Trans. of [Physik in Regelmässigen Berichten]
(Germany) 1940, v. 8, no. 4, p. 127-148.

DESCRIPTORS: *Solids, *Ions, *Conductors, Crystal
structure, Crystal lattices, Surfaces, Crystal lattice
defects, Diffusion, Glass, Temperature, Transport
properties, Thermal conductivity, Chemical bonds.

(Physics--Solid State, TT, v. 10, no. 11)

Office of Technical Services

Preparation, Support, and Propagation of the Dose
Unit for X and Gamma Radiation With Quantum Energy
Between 3 and 500 Kev, by B. Rajewsky.

GERMAN, bk, Physikalisch-Technische Bundesanstalt,
Germany, 1955.

*AEC

Sci - Nuc Phys

Oct 59

The Calculation of Corrections for
Engagement Errors in Screw Threads, by
M. Gary.

GERMAN, per, Physikalisch-Technische
Bundesanstalt Wissenschaftliche Abhand-
lungen, Vol VII, No 2, 1955, pp 5-15.

CSIRO 3504

Sci - Enggr

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Feb 62

Investigations of the suitability of "Centamin"-
wires for Precision Resistors, by H. Hetzel,
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Wissenschaftliche Abhandlungen, Vol XII, 1960,
pp 549-555.

CSIRO/No 5820

Sci
Feb 63

Material With a High Initial Permeability Rept,
II., by H. Gumlich, W. Steinhaus, 4 p.

QUERFAM, per, Physikalisch-Technische Reichsanstalt
Wissenschaftliche Abhandlungen, 1930, Vol XIV,
No 1, pp 261-265.

SLA 60-10436

Sci
Apr 60
Vol III, No 3

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Summary of:

Physics of Gas Discharge and Plasma, 16 pp.

GHEVMAH, per, Physikalische Abhandlungen aus der
Sowjetunion, Vol 10, No 1, 1957.

SIR-2878

Head, Lib Sv Sec

Air Info Div, Lib Cong

The Shell-Model of Atomic Nuclei, by F. L. Bauer.

Full translation.

GERMAN, per, Physikalische Blatter, Vol VII, No 5,
1951, pp 205-214.

AEC Tr 1614

Scientific - Nuclear Physics

Jul 53 CTS

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Advances in the Field of Thermionic Cathodes,
by H. Steyskal, 16 pp.

GERMAN, per, Physik Bl, Vol VIII, No 11, 1952,
pp 493-500.

SLA Tr 57-719

Sci - ~~PH~~ Physics

Aug 57

50,668

For a Progressive Soviet Physics, 4 pp.

GERMAN, per, Physikalische Blatter, Vol IX, No 6,
Jun 1953, pp 264-266

ATIC F-TS-3174

Scientific - Physics

ATIC 129081
CIA 2001354

CRS/DEK

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Reports by the Physical Society by the DDR
(Russian Zone in Germany), 6 pp. UNCLASSIFIED

GERMAN, per, Physikalische Blatter, No 7, 1954,
pp 328-331. CIA D 210742

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Scientific - Physics
May 55 CTS
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Energy-Transference Processes in Luminescence,
by Wilhelm Hanle. UNCLASSIFIED

GERMAN, per, Physik Blatter, Vol X, 1954,
pp 565-577.

AEC Tr 3105

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Sci - Phys
Feb 58

The Meteorological Observatory Aachen of the
German Weather Service, by H. Israel, 6pp.

GERMAN, per, Physikalische Blatter, Vol XI,
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Sci - Geophysics
May 1956

Cosmic Voyages and the Clock Paradox, by
Max Born, 7 pp.

GERMAN, per, Physik Blatter, Vol XIV, 1958,
pp 207-212.

MDF B-144
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Oct 61

The So-Called Superbomb, by Ulrich Jetter.
GERMAN, per, Physik Blatter, Vol VI, 1960,
pp 199-205. 9231909
AEC-ORNL-Tr-842

Sci - NS
Feb 66

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Some Recent Results of the Electron-Microscopic
Investigation of NaCl Surfaces, by H. Bethge.
GERMAN, per, Physikalische Blatter, Vol ~~X~~ XVI,
No 4, 1960, pp 223-227.
GB/163

Sci - ~~X~~Phys
Apr 64

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Simplified Electron-Microscope Target Preparation;
by H. Poppa.

GERMAN, per; Physikalische Blätter; Vol XVI;
No 4, 1960, pp 203-207.

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Sci-Phys
Feb 63

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(DC-4963)

New Entrance Requirements for East German
Institutes of Higher Education, 1960-1961, by
H. Lehman, 4 pp.

GERMAN, per, Physikalische Blaetter, Vol XVI, No 9,
1960, pp 493, 494.

JPRS 6572

REur - Germany
Soc
Jan 61

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Anti-Matter, by R. Hagedorn, 20 pp.

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AKC-NP-tr-1056

Sol-Phys
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The Impact of Meteorites as a Ballistics Problem
in Space Travel, by R. Schall, 7 pp.
GERMAN, per, Physikalische Blatter, Vol XVIII,
No 7, 1962, pp 308-313.
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NRL 974

Sci - Phys, Earth Sci & Astron
May 64

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Physikalische Chemie der Kolloide. 1953, by S. M.
Lipatov

Translated from the Russian edition, 1948.

DSIR 541.18
Lending Lib Unit
G. 11707

On the Spin and the Structure of Electrons,
by F. Bopp, 14pp
GERMAN, per, Physikalische Gesellschaft,
22 Oct 48, pp 58-778
OTS TT-64-71271

Sci - Phy
May 67

516
326, ~~406~~

Apparatus for the Manufacture of Dielectric
Multiple Layers, by G. Schreiber, 9 pp.
GERMAN, per, Physikalische Gesellschaft in der
Deutschen Demokratischen Republik "Optik und
Spektroskopie Aller Wellenlangen", 1962,
pp 149-156.
P100134568-V
FTD-HT-67-299

Sci-Physics
July 68

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Laser Transition and Superradiation at 6143A and 5944A
in a Pulsed Neon Discharge, by D. Rosenberger.
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GB 60/NSTIC 1708

Sci -
Aug 67

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English Title Unknown, by O. Schultze.
GERMAN, per, Physikalisch-Medicinische Gesell-
schaft, Vol 28, No 2, 1894, pp 1-22.
*NASA TT F-12,577

Sept 69

English Title Unknown, by O. Schultze.
GERMAN, per, Physikalisch-Medicinische Gesell-
schaft, No 4, 1897, pp 41-48.
*NASA TT F-12,580

Sept 69

Kayser's Physics of the Ocean. 37 pp.
GERMAN, bk, Physik des Meeres, Second Edition,
pp 201-233.
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Dec 69

397,408

The Dislocation Structure of the Boundary
Layer When Silver and Copper are Joined,
by Ulrich Gradmann. 10 pp.

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GERMAN, per, Physik der Univ Marburg Phys
Kondens, Materie, Vol 3, 1964, pp 91-98.
NASA TT F-12,350

Sci-Phys

Oct 69

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FDD 25992)

Geophysicists Meeting in Munich, 31 pp.

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Vol VI, No 5, Mosback/Baden, 1955, pp 87-100.

CIA/FDD/U-1666

EEur - Germany
Sci - Geophysics

30,554

CTS 75/Dec 55

Production of a Stream of Hydrogen Atoms With
Unidirectional in Clear Spin, by A. Clausnitzer.

GERMAN, per, Physikalische Verhandlungen, Vol ^{VII} 8,
1957.

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Dec 58

CEA-tr-A-640 UNCL.

UN TUBE GÉNÉRATEUR DE NEUTRONS ENTièrement SCÉLLÉ.
(On Generation of Neutrons in Completely Sealed
Tubes). O. Reifenschweiler and A. C. Van Dorsten.
Translated into French from Physik. Verhandl., 8:
No. 7, 163 (1957). 10p.

Particle Physics; Translations MC-34

C-34 NP NSA

2/27/61/rw

Expansion of the Measuring Range of an Electrostatic
Mass Spectrometer, by R. Ehrlich, E. Blauth,
F. Melzer, 15 pp.

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1961, pp 224. 9093518

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Sci - Phys
Jul 62

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The Distribution of Higher Energy Reflections
in Auditoria, by G. R. Schodder.

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Mathematisch-Naturwissenschaftlichen Fakultät der
Georg-August-Universität, Göttingen, Sep 1955.

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Sci - Physics
May 57 CTS/dex

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Wireless Telegraphy and Electrodynamics, by [^]A. M.
Abraham, 20 pp.

GERMAN, per, Physik Z, Vol II, No 22, 2 Mar 1901,
pp 329-334. _____

SLA Tr 57-1591

Sci - Electricity
Oct 57

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Simplified Determination of a Linear Resonator's
Oscillation Laws in the Stationary Radiation Field,
by Max Planck, 9 pp.

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Sci - Physics
May 60

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A Simple Method for the Determination of the
Temperature of Gasoline Flares, by S. K. Kishner.

Chemical, War, Patent Office, No. 2,
1902, pp. 184-188.

ORD 2531

Sci - Engt
Aug 68

341,388

Fundamental Hypothesis of Electron Theory,
by M. Abraham.
GERMAN, per, Physikalische Zeitschrift,
Vol 5, 1904, pp 576-579.
*NASA TT F-12,409

Sci-Elec
June 69

Concerning a Photoelectric Photometer and Observations
With It During the Total Solar Eclipse of Aug 30, 1905,
by F. Harms.
GERMAN, per, Physikalische Zeitschrift, Vol 7, No 17,
1906, pp 585-587.
*AFCRL

Jan 72

On a Method of Making the Discharges of
Condenser Circuits With Spark Gaps More Regular,
by W. Reichhoff, 2 pp.

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SLA Tr 57-2233

Sci
Jul 58

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Concerning Slow Cathode Rays, by O. Beyer, 17 pp.

GERMAN, per, Phys Z, Vol X, 1909, p 168.

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Sci - Electricity
May 57

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Sound Propagation From Catastrophic Explosions,
by G. Borne, 11 pp.

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32,746

Colored Hydrides of the Alkali Metals and Their
Photoelectric Sensitiveness, by J. Elster, H.
Geitel, 17 pp.

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SLA 57-1548

Sci - Minerals/Metals
Mar 58

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On a Special Type of Discontinuous Spectra of
Solid Bodies, by E. Goldstein, 9 pp.

GERMAN, per, Physikalische Z., Vol XI, 1910, pp
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Jul 59
OTB I, 11

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Conditions ~~///~~ Which Are Magnetically Analogous, by
R. Gans, 30 pp.

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SLA 57-3236

Sci

Aug 58

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Electromagnetic Action of Metallic Ions,
Deflected by a Magnetic Field, by O. M. Corbino,
23 pp.

GERMAN, per, Physik Z, Vol XII, No ¹⁴ 62,
15 Jul. 1911.

SLA Tr 2175

Sci - Physics
Sep 57

53,052

TT-64-10372

Corbino, O. M.
ELECTROMAGNETIC EFFECTS RESULTING FROM
THE DISTORTION, PRODUCED BY A FIELD, IN
THE TRAJECTORY OF THE IONS IN METALS (Elek-
tromagnetische Effekte, die von der Verzerrung
Herrühren, Welche ein Feld and der Bahn der Ionen in
Metallen Hervorbringen). [1963] 16p 3refs
Order from SLA \$1.60

TT-64-10372

Trans. of Physikallische Zeitschrift (Germany) 1911,
v. 12, no. 14, p. 561-568.

DESCRIPTORS: Metals, Ions, *Electromagnetic fields,
Distortion, *Electromagnetic properties, *Hall effects

(Physics--Electricity, TT, v. 11, no. 9)

I. Corbino, O. M.

Office of Technical Services

Investigations of Photoelectric Cells With
Colored Potassium Cathodes, by J. Elster,
H. Götzel, 15 pp.

GERMAN, per, Physik Z, Vol XII, No 15, 1911,
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SLA 57-2219.

May 58

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The Study of Emission Spectra of Solid Acoustic
Substances by Means of the Ultraviolet Filter, by
B. Goldstein, 11 pp.

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pp 614-620.

SLA 59-10638

Sci
Nov 59
Vol 2, No 3

101,524

Experimental Study of the Hall Effect and the
Electron Theory of Metals, by O. M. Corbino,
11 pp.

GERMAN, per, Physik Z., Vol XX, No 12, 15 Oct
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SLA Tr 57-2196

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Jul 58

68,001

On the Mechanisms of Fluids and Drag, by Th. Von
Karman.
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Jan 15, 1912, pp 49-59.
*NASA TT F-11,958

Sept 68

Vibrations in Space Lattices, by M. Born,
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RAE 930

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167, 855

Sep 61

Investigation of the Principal Spectra of Aromatic
Compounds by Means of Ultraviolet Light, by L.
Goldstein, 10 pp.

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SLA 59-10539

Sci & Chem
Sep 59
Vol 2, No 2

77 979

The External Friction of Gases and A New Principle
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W. Gaede, 12 pp.

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AEC Tr 1751

Scientific - Physics

Jan 54 CTS/DEX

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The Elasticity Problem for Thin Shells of Toroidal,
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Sci - Physics

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Oct 57

Shape of the Curve of the Magnetic Induction of
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Depending Upon the Thickness of the Sheets,
(Effect of the Magnetic Skin-Effect), by H. Fassbender,
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SLA Tr 57-1581

Sci - Electronics
Jan 58

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Friction of Gases, by A. Eucken, 15 pp.

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Sci
Aug 61

164, 908

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GERMAN, par, Physik Zeit, Vol 14, May 1913,
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NASA TT F-12,527

Sci-Math
Nov 69

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The Fresnel Diffraction Phenomena, by
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1913, pp 832-835. 9668687

Amer Meteorol Soc T-G-174

Sci - Phys
May 63

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A New Type of Absorption Spectrum, by J .
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GERMAN, Per, Physik Z., Vol XIV, 1913, P.
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SLA 3237

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Jul 58

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Dependence of Plasticity of Rock Salt on the
Surrounding Medium, by K. Kleinhanns, 3 pp.
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AEC Tr 3136

Sci - Phys
Feb 58

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On the Quantum Theory of Radiation, by Albert Einstein

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(translation on tape)

Scientific - Physics
Jan 56 CTS

30, 233

Sound Fields and Sound Antennae, by V. Bahnermann,
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GERMAN, per, Physik Z, Vol XVIII, 1917, pp 261-
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SLA 58-367

Sci
Jul 59

93,004

Mechanical Theories of the Electromagnetic Field,
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GERMAN, per, Physik Z, Vol XVIII, 1917, pp 323-526.

EEur-Germany

FDD/X 4156

18 Mar 1960

Determination of a Crystal System by Means of
X-rays, by C. Runge.

GERMAN, per, Physikalische Z, Vol. XXI, 1917,
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HLH 2-2-63

Sci - Phys

May 63

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Sound Transmitters and Sound Receivers² by W.
Mahnemann, Hecht, 19 pp.

GERMAN, per, Physik Z, Vol XX, Mar 1919, pp
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SLA 58-129

Sci
Jul 59

93,005

The Molecular Electric Field in Gases, by P. Debye.

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1919, pp 160, 161.

No 20

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Air Res and Dev Command

TT-1 G- TT - 2 & U

Scientific - Physics

Jun 55 CTS/DEX

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On the Decay Modulus of Fluorescence,
by O. Stern, M. Volmer.
GERMAN, per, Physik Z., Vol XX, 1919, pp 183-188.
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AEC-ORNL-Tr-898

alter S.L.A. Th 693/1955

Sci - Biol
Jan 66

294,291

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Hahnemann, Hecht, 21 pp.

GERMAN, par, Physik Z., Vol XX, June 1919, pp
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SLA 58-128

Sci
Jul 59

93,006

The New Phenomena Discovered With the Aid of the New
Amplifier, by H. Barkhausen, 6 pp.

GERMAN, per, Physik Z, Vol XX, 1919, pp 401-403.

SLA 57-2209

Sci
May 58

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The Fundamental Form of the Mechanical Acoustic
Oscillating System, by W. Hake²mann, H. Hecht, 21 pp.

GERMAN, per, Physik Z, Vol XXI, No 8, Apr 15, 1920,
pp 187-192.

SLA 58-348

Sci
Jul 59

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Transmitter and Receiver, III, by W. Bahnmann, H.
Recht, 17 pp.

GERMAN, par, Physik Z, Vol XXI, 1920, pp 264-270.

SLA 58-188

Sci
Jul 59

93,025

Sound Transmitters and Sound Receivers. IV, by
W. Rehnemann, 111 Hecht, 11 pp.

GERMAN, per. Physik Z., Vol XXI, 15 Aug 1920,
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SLA 5C-41

Sci

Jul 59

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Horovitz, K.
ON THE APPARENT DIMINUTION OF DISTANT
OBJECTS (Über die Scheinbare Verkleinerung
Entfernter Objekte). [1961] [5]p. (forcing text in-
cluded) 3 refs.
Available on loan from SLA 61-14735

Trans. of Physik[alische] Zeitschrift (Germany)
1920, v. 21, p. 499-500.

DESCRIPTORS: *Eye, *Optical illusions, *Visual
perception, Adjustment (Psychology), *Optics,
*Vision, *Ophthalmology, *Visual activity, Tests.

(Unannounced)

61-14735

1. Title: Micropsia, Macropsia.
1. Horovitz, K.

161750

Office of Technical Services

The Elastic After-Effect, by K. Bennewitz,
5 pp.

GERMAN, per, Physik Zeitschr, Vol XXI, 1920,
pp 703-705. CIA D 513.

A.C.S.I.L. Trans 583

Sci - Physics

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An Appraisal of the Traditional Interpretation of
Thermodynamics, by M. Born, 20 pp.

GERMAN, per, ~~Zeitschrift für Physik~~ Physik Z,
Vol XXII, 1921, pp 218-224, 282-286.

SLA Tr 1435/56

Sci - Physics
Mar 57 CTS

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The Photographic Density Law for X-Rays, by
R. Glocker, W. Traub, 18 pp.

GERMAN, per, Physikalische Z, Vol XXII, No 12, 1921,
pp 345-352. 9093315

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Sci - Phys
Apr 62

191, 296

The Fundamental Form of the Gaseous, Acoustic
Oscillation System, by W. Rahnemann, H. Hecht,
17 pp.

GERMAN, Ger, Physik Z., Vol XXII, 15 Jun 1921,
p. 353-360.

SLA 50-20

Sci

Jul 59

91,306

On the Intensity and Broadening of Spectral Lines,
by Chr Fuchtbauer, G. Joos.

GERMAN, per, *Physikalische Zeitschrift*, Vol *Nov 3*
~~1922~~, 1922, pp 73-80.

Air Res and Dev Command

Scientific - Physics

TT56 TT-LBU

Translation on tape Jun 55 CTS

24,705

On the Influence of Foreign Gases in Saturated
Sodium Vapor, by R. Minkowski.

GERMAN, per, Physikalische Zeitschrift, No 23, 1922,
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Scientific - Physics

Translation on tape Jun 55 OTS

TT 18 G TT-196 V
24,700

On an Intermediate Discrepancy in the Electro-
dynamic and Relativistic Theory of Electro-
magnetic Mass, by E. Fermi. 10 pp.
GERMAN, per, Physik Zeit, Vol 23, 1922,
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NASA TT F-12,554

Sci-Phys
Dec 69

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The Determination of Dielectric Constant in the
Electromagnetic Spectrum of Undamped Oscillations,
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GERMAN, per, Physik Zeit, Vol 23, 1922,
pp 344-346.
NASA TT F-12,671

Sci-Phys
Dec 69

398,485

Notes on the Essay: Magnetic Permeability of
and Artificial Magnetic Medium by Alexander
Goldhammer, by H. Maurer.
GERMAN, per, Physik Zeit, Vol 23, 1922,
pp 346-347.
NASA TT F-12,672

Sci-Phys
Dec 69

398,491

The Tensile Strength of Rock Salt, by F.
Zwicky, 12 pp.
GERMAN, per, Physikalische Zeitschrift, Vol 24,
1923, pp 131-137. P911180867
ABC LA Tr-67-9

326,469

Sci - Materials
June 67

61-10328

Debye, P. and Huckel.
THEORY OF ELECTROLYTES. II. THE LIMITING
LAW OF ELECTRICAL CONDUCTIVITY. [1960]
[25]p. (2 figs. omitted) 31 refs.
Order from SLA mt\$2.70, ph\$4.80 61-10328

Partial trans. (p. 316-325) of Physik[alische]
Zeitsch[ri]ft (Germany) 1923, v. 24 [no. 15]
p. 305-325.

148,489

I. Electrolytes--Conductivity
I. Debye, P.
II. Huckel
III. Title: Limiting...

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(Unannounced)

Schuler, M.
THE DISTURBANCE OF PENDULUM AND GYRO AP-
PARATUS THROUGH THE ACCELERATION OF THE
VEHICLE. [1961] 12p. 2 refs.
Order from SLA \$1.60

62-10303

Trans. of [Physikalische Zeitschrift (Germany) 1923,
v. 24, no. 16, p. 344-350].
Another trans. is available from SLA mi\$2. 40, ph\$3. 30
as 59-15222 [1959] 20p.

DESCRIPTORS: Acceleration, Gyroscopes.

OTS TT-44-71265

(Unannounced)

62-10303

1. Schuler, M.

Office of Technical Services

Proof that a Mechanical Normal System in General
is Quasi-Ergodic. On the Existence of Quasi-
Ergodic Systems, by Enrico Fermi, 9 pp.

GERMAN, per, Physikalische Zeitschrift, 8 Vol XXIV,
1923, pp 261-265; Vol XXV, 1924, pp 166-167,
9205060.

ABC/UOEL Tr 891 (L)

Sci - Phys

130, 685

May 63

On the Elastic After-Effect, Elastic Hysteresis,
and Internal Friction, by K. Bernalowitz.
GERMAN, per, Physikalische Zeitschrift, Vol XXV,
No 17, p1924, pp 417-431.
Dept of Navy Tr 4457/APL/JHU T-1581

296,445

Sci-Phys, Engr.
Feb 66

On the Elastic After-Effect, Elastic Hysteresis and
Internal Friction, by H. Jordan.

GERMAN, per, Physikalische Zeitschrift, Vol XXIV,
No 22, 1924, pp 579-584.

*Navy/APL J319

Sci - Phys
Feb 64

Modification Changes of Zircon and Hafnium, by
C. Zwikker.

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